

Composite Solenoid Valve for Water Purification and Conditioning Applications

ASCO Numatics introduces the 212 Series of composite solenoid valves that incorporate the new FasN™ universal connection system. Designed specifically for water purification and conditioning systems in commercial and industrial applications, its robust, lightweight engineered plastic body has been tested to achieve up to 1 million operating cycles. The 212 Series has the highest pressure and temperature ratings on the market – up to 150 psi and 180° F. The composite valve has been tested and certified by NSF International: NSF 61 Annex G (drinking water), NSF 169 (special purpose food equipment and devices), and NSF 372 (lead-free), and certified against NSF Standard 42 for materials and structural requirements.



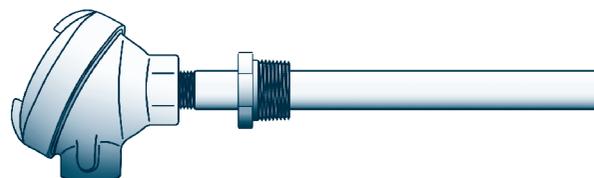
Request/download ASCO Numatics 212 Series

Fairchild Motor-Driven Pneumatic Regulator

The 24XFM M/P Converter is a Motor Driven Pneumatic Regulator with motor assembly enclosed in a explosion proof housing. The motor is coupled to a no-bleed Model 10 pneumatic regulator assembly to provide the desired operating pressure range for any application. The 24XFM requires a 12-24 VDC power supply and has the option of DC Pulse or DC Analog input. The Fairchild 24XFM motorized regulator line will handle a 500 psi, 35 BAR maximum supply pressure and offers four (4) different set point pressure ranges from 0-30 psig [0-2 bar], to 0-150 psig [0-10 bar].



Request/download Fairchild 24XFM



National Basic Sensor Heavy-Duty Thermocouple

The NBS Series 2M thermocouples are heavy-duty metallic pipe-protected thermocouples. Wire gauge ranges from 24 AWG to 8 AWG depending upon the protection tube dimensions and thermocouple type. A wide variety of protection tube materials are available. These assemblies can be supplied with an optional mounting bushing or adjustable flange. The screw cover connection head is available in Cast Iron, Cast Aluminum, or Stainless Steel.

Request/download National Basic Sensor NBS-1

Sanitary Pressure Measurement Solutions

NOSHOK offers a range of heavy duty sanitary pressure measurement solutions to meet the stringent demands of the food & beverage, dairy, pharmaceutical and biomedical industries. All NOSHOK Sanitary Instruments can be cleaned-in-place and steamed-in-place, and dry case gauges are suitable for autoclave. All NOSHOK sanitary pressure measurement instrumentation meets current standards for 3A and ASME BPE-2009.



10 Series Heavy-Duty Gauges are available for ranges in vacuum and compound through 600 psi and process temperatures up to 300°F (150°C). 2-1/2" and 4" sizes are available, with 1-1/2" or 2" clamped-style process connections. These gauges feature electropolished 304 stainless steel cases with welded 316L stainless steel sockets and clamped-style process connections. Dry and liquid filled cases are available.

Request/download NOSHOK 10 Series Gauges

Monnier Introduces New Filter Models

Monnier, Inc. has broadened its expansive line of air preparation products to include mainline, high flow particulate and coalescing filters. These new products offer larger sizes – up to 3" NPT – and higher flows – up to 1200 SCFM. Monnier's 201-7200 & 201-8200 Series filters are available in 1-1/4", 1-1/2" and 2" NPT, BSPT or BSPP. Their 201-9202 Series is available with 3" NPT ports. All of these units are available in particulate (3 micron element) or coalescing (0.01 micron) styles. 201-7202 filters flow 400 SCFM @ 100 PSIG; 201-8202 filters flow 700 SCFM @ 100 PSIG; and 201-9202 filters flow 1200 SCFM @ 100 PSIG. All are constructed with a heavy-duty cast aluminum housing and are available with either manual or float drains. A pressure drop indicator is



available for 201-7200 & 201-8200 Series filters.

Request/download Monnier New Products Brochure

Seametrics Low Flow Magmeter

The PE102 magmeter is designed for low-flow chemical injection or difficult-to-meter applications with pulsating metering pumps in 3/4" to 1/4" pipe/tube. With no moving parts, the PE102 can handle fluids containing particulate matter without clogging or jamming, keeping maintenance at a minimum.



With no metallic parts (100% PVDF body and PVDF carbon fiber-filled electrodes), the meter is corrosion-resistant and compatible with a wide range of chemicals. Accuracy is maintained with conductive fluids (>20 microSiemens) of varying viscosities and densities. The housing is made of sturdy splashproof HDPE plastic.

The PE meter has optocoupled current sinking or current sourcing pulse output that can be connected to the Seametrics FT420 rate/total display or FT520 batch processor, as well as a 4-20 mA loop for powering analog devices. Outputs and power are provided through a 20-foot (6 meter) cable with 8-pin female circular connector.

The PE meter is compact enough to fit most pump/injection systems. With zero straight pipe required after an elbow, it can be easily mounted in tight spaces. The mounting bracket adds stability to the installation.

Request/download Seametrics PE102

DIPTAPE™ Tank Level Indicators

These manually-operated indicators from Gems Sensors are compact and completely self-contained. They need no electricity to provide continuous indication of liquid level in storage tanks and vessels. DIPTAPE™ indicators are ideal for quick, periodic readouts that are accurate to 1/16 in. or 1 mm; especially in remote areas where power is unavailable, or undesirable. Only the float and stem contact the liquid, so the readout tape is always clean and readable.

Custom-configurable DIPTAPE™ indicators are available in a broad range of materials and mounting types in lengths to 6 ft (1.8 m). For lengths from 6 to 10 feet consult with us.

Request/download Gems Sensors DIPTAPE™



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Spring-hung and floating internally piloted 2-way valves

Many times the requirement for a zero-differential valve is mistaken for being a requirement for a direct-acting valve. Direct acting valves are zero-differential, but there are also larger, internally piloted valves which can open and close at zero pressure differential.

On a direct acting 2-way valve, the solenoid operator opens and closes the orifice in the valve body “directly” without any additional assistance. The most popular ASCO direct-acting valves are the 8262/8263, 8030, and 8040 series.

Internally piloted diaphragm or piston valves are of two types: floating and spring-hung. A spring-hung internally piloted construction has a zero pressure differential rating and can be identified by a 0 in the minimum pressure column of the catalog. The most popular ASCO 2-way internally piloted valves are the 8210 and 8215 series.

In order to use a small solenoid operator on a solenoid valve that has a large orifice diameter, (up to 3”), and a higher maximum operating pressure differential, an internally piloted construction is required. This type of operation utilizes the line pressure to open and close the orifice in the valve body. The solenoid operator need only open a small pilot orifice just as in the direct acting valve.

On an internally piloted 2-way normally closed diaphragm or piston valve, de-energized, the pilot hole is closed and line pressure is allowed to build up over the diaphragm though the bleed hole. Line pressure is applied over

the entire top side of the diaphragm and only around the outer edge of the bottom side of the diaphragm. This creates a force difference that seats the diaphragm on the valve body orifice.

When the solenoid operator is energized, the core lifts off and opens the pilot hole. The pressure above the diaphragm begins to drop, since the pilot dumps fluid faster than the bleed can supply fluid. When this pressure above the diaphragm is dumped, the main line pressure pushes the diaphragm up. As long as there is sufficient minimum operating pressure differential across the valve, the diaphragm remains up. This is called a floating diaphragm.

When the solenoid operator is de-energized, the core under the action of the core spring closes the pilot orifice. Main line pressure flows through the bleed hole and builds up over the top of the diaphragm.

When the pressure above the diaphragm equals line pressure, the diaphragm seats onto the valve orifice, closing the valve. Floating diaphragm constructions are found in the 8210, 8215, 8214, 8220 series.

If a 2-way, internally piloted valve is used in a system where the minimum operating pressure differential cannot be maintained, a “hung diaphragm” construction is used. This construction is the same as the floating diaphragm except that the core holds the diaphragm in the up position by means of a hanger spring regardless of the differential. This is called a zero minimum operating or hung diaphragm valve.

We are much more than a stocking distributor. We design custom systems, build pneumatic control panels for specific applications and we have a special expertise in pneumatics and air logic. Our people are experienced in electromagnetic, solid-state, air, pressure and temperature controls, AND WE KNOW VALVES – backwards and forwards. For help with your application, call us at (203) 261-6711.

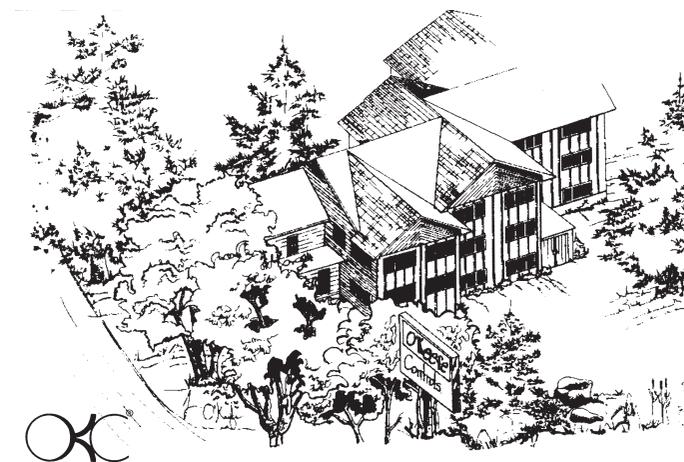
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